

# LITHIONICS BATTERY®

LITHIUM ION IRON PHOSPHATE BATTERY SYSTEMS



MODEL: 12V130A-G31-LRBM8  
PART NUMBER: 74-505

INTERNAL BMS  
VERSION



| Item   | Description  |
|--|--|
| Model  | 12V130A-G31-LRBM8  |
| Nominal Voltage  | 12.8V  |
| Nominal Capacity   | 130Ah  |
| Internal Resistance  | ≤4mΩ   |
| Features   | NeverDie® Reserve, High and Low Voltage Cutoff, High and Low Temperature Cutoff, Short Circuit Protection, <b>Bluetooth® App Support</b>   |
| NOTE: Battery may not be connected in series to make 24 volts or higher. |  |
| <b>Charge</b>  |  |
| Charging temperature range   | 32~113°F (0~45°C)  |
| Charge voltage   | 14.4±0.1V  |
| Recommended float charge voltage (for standby use)                       | 13.5±0.1V  |
| Recommended charge current   | ≤50A   |
| Allowed max charge current   | 100A with starting temp of 77°F (25°C)   |
| <b>Discharge</b>   |  |
| Discharging temperature range  | -4~131°F (-20~55°C)  |
| Output Voltage Range   | 10.0~14.6V   |
| Recommended discharge current  | ≤80A   |
| Max continuous discharge current   | 100A with starting temp of 77°F (25°C)   |
| Surge discharge current  | <400A for 30s max with starting temp of 77°F (25°C)  |
| Pulse discharge current  | <1000A for 1s max with starting temp of 77°F (25°C)  |
| Reserve cut-off voltage  | 12.0V±0.05V  |
| Discharge cut-off voltage  | 10.4±0.1V  |
| <b>Mechanical Characteristics</b>  |  |
| Dimensions   | Length 12.5in (318mm)<br>Width 6.5in (165mm)<br>Height 8.46in (215mm)  |
| Mounting Orientation   | Upright position only (terminals up)   |
| Weight   | Approx. 33.4lbs (15.1Kg)   |
| <b>Storage</b>   |  |
| Storage Temperature & Humidity Range                                     | < 1 Month -4~95°F (-20~35°C), 45~75%RH<br>< 3 Months 14~86°F (-10~30°C), 45~75%RH<br>Recommended storage 59~95°F (15~35°C), 45%RH~75%RH  |
| Long Term Storage  | If the battery needs to be stored for > 3 months the voltage should be 13.2V (50%SOC), and stored at the recommended storage specifications shown above. Additionally, the battery needs at least one charge & discharge cycle every six months. |
| Self-discharge rate  | Residual capacity ≤3% per month; ≤15% per year<br>Reversible capacity ≤1.5%per month; ≤8% per year   |

### INTERNAL NEVERDIE® COMPACT SERIES FEATURES

- MiniBMS® Cell/Module Sensors and Microprocessors with Automatic Cell Balancing
- NeverDie® Power Reserve (Spare Fuel) for Hotel Loads and Worry-Free Power for Engine Cranking
- Over-Charge, Over-Discharge and Short-Circuit Protection (LVC, HVC, SCC)
- Pushbutton Storage Operation, Optional Remote Switch Harness Available (Part Number 75-224-196)
- Bluetooth®: Monitor Battery Voltage, State-of-Charge, Temperature, Current & Status Code remotely from your mobile device. Available for download on [Google Play](#) & [Apple App Store](#).



ENERGY

625 CRANKING AMPS

PULSE AMPS: 1,000 (1 SEC)

1,664 WATT-HOURS

### WARNING

- LITHIUM BATTERIES ARE NOT DESIGNED FOR CHARGING IN SUB-FREEZING TEMPERATURES. CONTACT LITHIONICS BATTERY® FOR DETAILS ON OUR COLD WEATHER PACKAGE.
- INSTALLATION: IT IS REQUIRED THAT THE BATTERY BE INSTALLED TERMINAL SIDE UP.

NOTE: CONTACT LITHIONICS BATTERY® FOR A USER INSTALLATION GUIDE & STORAGE PROCEDURES. FOLLOW THE GUIDE TO ENSURE FITNESS OF USE & WARRANTY.

12V  
ENERGY  
SERIES